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BIDMZ

25 November 1946.

Subject: Use of Depleted Materials as Feed.

MEMORANDUM to The District Engineer, Manhattan District, P. O. Box 2610, Washington, D. C.

- At the present time K-25 is being fed Normal Material at a rate of 1800 Kg T/day with an expected production of 2.55 Kg X/day at concentration 412500 and a tails concentration of 33052.0.
- On 21 October 1946 the following material was on hand as 2. wastes:

Material	KgT	Average Concentration
8-50 Waste	76,850 1 43 ,580	33 067,2 330 55.1
K-25 Waste K-27 Waste	586,220	33048.8

- With present facilities it is possible to feed 3600 Kg T/day It is believed that the most economical feed rate for depleted materials is the maximum. From the wastes listed above it would be possible to operate K-25 -27 for a period of three years with production decreasing from 2.97 Kg I/day for the first 30 days to 1.18 Kg I/day for the last 215 days. It is estimated that a total of 2021.5 Kg I/day could be be covered in 5 years. The waste remaining would have a concentration of 22024.0.
- Attached is a tabulation showing one scheme of feeding wastes until production decreases to 1.90 kg X day and tails concentration decreases to 25087.1./ The assumed cost of operation is \$5,500,000.00 per month.
- All production shown on attached tabulation is at maximum concentration of 412500. It should be understood that these are calculated performances.

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Tebulation (in dup.)

Distribution:

Cys. 1&2 - Addressee w/Tabulation (in dup.)

Cys. 384 - Class.Files w/Tabulation

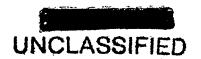
Cys. 566 - Mr. Williams File w/Tabulation

WALTER J. WILLIAMS Director of Operations.

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By Authority of _ Classification Authority

T. F. Davis, Analysas Corp 13 - 20 - 90 RB Warter 1-10-91 Date



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Ω	}	SCHEME OF E	SCHEME OF FEEDING WASTES $(ert \wedge)$	Ξ			
RECYCLE	# SOURCE	Kg T AVAILABLE	AVE. CONO.	FEED RATE Kg T/day	of OPERATION	PRODUCTION COST	T COST
ı.	(S50 mate	76,850	53067.2	2500	5017	2.97	39.35
N	Recycle 1.	200,840	38065.0	2600	55.8	2.49	46.85
o.	K-27 Waste Plus Waste from Recycle 2.	775,920	33048.7	3600	215.9	2.19	53.40
بدر •	Maste from Recycle 5.	775,415	33042.6	3600	215.5	1.30	61.50

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R. B. Washer 1-10-91 Date